PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY

PCT To: GARY J. CONNELL SHERIDAN ROSS PO SHERIDAN ROSS P.C. NOTIFICATION OF TRANSMITTAL OF 1560 BROADWAY, SUITE 1200 DENVER, CO 80202 THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) Date of mailing 0 6 FEB 2009 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below 5941-65-PUS-CIP-PCT International application No. International filing date (day month/year) 23 July 2008 (23.07.2008) PCT/US 08/70930 Applicant THE REGENTS OF THE UNIVERSITY OF COLORADO 1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Directly to the International Bureau of WIPO, 34 chemin des Colombettes Where? 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 8270 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

Name and mailing address of the ISA/US	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Lee W. Young
P.O. Box 1450, Alexandria, Virginia 22313-1450	PCT Helpdesk: 571-272-4300
Facsimile No. 571-273-3201	PCT OSP: 571-272-7774

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's

Guide, Volume II, National Chapters and the WIPO Internet site.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 5941-65-PUS-CIP-PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 bel		see Form PCT/ISA/220 s, where applicable, item 5 below.				
International application No. PCT/US 08/70930	International filing date <i>(day/mon</i> 23 July 2008 (23.07.2008)	1	(Earliest) Priority Date (day/month/year) 23 July 2007 (23.07.2007)				
Applicant THE REGENTS OF THE UNIVERSITY OF COLORADO							
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of							
1. Basis of the report a. With regard to the language, the international search was carried out on the basis of:							
may, within one month from 6. With regard to the drawings, a. the figure of the drawings to be as suggested by the as selected by this A as selected by this A	ed, according to Rule 38.2(b), by the second of the second	re No. 1	st a figure.				

Form PCT/ISA/210 (first sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 08/70930

Box	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)					
1.	With regard	h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was ied out on the basis of:					
	a. type of	f material a sequence listing table(s) related to the sequence listing					
	b. format	of material on paper in electronic form					
	c. time of	filing/furnishing contained in the international application as filed filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search					
2.	or fi	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed irnished, the required statements that the information in the subsequent or additional copies is identical to that in the ication as filed or does not go beyond the application as filed, as appropriate, were furnished.					
3.	3. Additional comments:						

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:					
3. Claims Nos.: 13-22 and 35-39 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows: Invention 1: claims 1, 2, 8-12, 23-24, 30-34, 40-42, 48-49, 55-65, 70, 75-76 and 81-82, limited to the gene E-cadherin and SEQ ID NO: 3. Please note that there is an un-numbered claim between claims 70 and 71. This un-numbered claim also falls under the grouping of					
Invention 1. Invention 2: claims 1, 3, 8-12, 23, 25, 30-34, 40-41, 45, 48, 50, 55-64, 66, 70, 71, 75, 77, 81 and 83, limited to the gene RAB25 and SEQ ID NO: 83. Invention 3: claims 1, 4, 8-12, 23, 26, 30-34, 40-41, 46, 48, 51, 55-64, 67, 70, 72, 75, 78, 81 and 84, limited to the gene integrin beta 6 (ITGB6) and SEQ ID NO: 137. Invention 4: claims 1, 4, 8-12, 23, 26, 30-34, 40-41, 46, 48, 51, 55-64, 68, 70, 73, 75, 79, 81 and 85, limited to the gene integrin beta 6 (ITGB6) and SEQ ID NO:52. Invention 5: claims 1, 5, 8-12, 23, 27, 30-34, 40-41, 47-48, 52, 55-64, 69, 70, 74-75, 80-81 and 86, limited to the gene vimentin and SEQ ID NO: 195. Invention 6: claims 1, 6, 8-12, 23, 28, 30-34, 40-41, 43, 48, 53, 55-64, 70, 75, 81 and 87, limited to the gene ZEB1 and SEQ ID NO: 196. Invention 7: claims 1, 7-12, 23, 29-34, 40-41, 44, 48, 54-64, 70, 75, 81 and 88, limited to the gene SIP1 and SEQ ID NO: 197.					
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.					
2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.					
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:					
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: claims 1, 2, 8-12, 23-24, 30-34, 40-42, 48-49, 55-63, 64a, 64b, 65a, 65b, 70, 75-76 and 81-82, limited to the gene E-cadherin and SEQ ID NO: 3.					
Remark on Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest					
fee was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.					

INTERNATIONAL SEARCH REPORT

International application No. PCT/US 08/70930

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - C12Q 1/68, C40B 30/04, A61P 35/00 (2008.04) USPC - 435/6, 435/7.23, 506/9 According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) USPC -435/6, 435/7.23, 506/9							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST(USPT,PGPB,EPAB,JPAB); PubMed; Google Scholar Search Terms Used: sensitive, resist, cetuximab, panitumumab,nimotuzumab,matuzumab, epithelial, cancer,tumor,E cadherin,EGFR, antibody							
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.				
X	US 2006/0211060 A1 (HALEY et al.) 21 September 20 especially para [0016],[0018], [0020],[0025][0039],[013	06 (21.09.2006)entire document, 3],[0190]	1,2, 8, 9, 23, 24, 30, 31, 40-42, 48, 49, 61, 62				
Υ			10-12, 32-34, 55-60, 63, 64a, 64b, 65a, 65b, 70, 75-76, 81-82				
Υ	US 2007/0020261 A1 (SLIWKOWSKI et al.) 25 Januar especially para [0044], [0084],[0087], [0201]	10, 12, 32, 34, 55-60, 63, 65a					
Y	ALLAN, Nimotuzumab: Evidence of Clinical Benefit Wit Vol 10, No 9, pp 760-761	11, 33, 64a					
Y US 2002/0045591 A1 (GEIGER et al.) 18 April 2002 (18.04.2002) entire document, especially para [0101], SEQ ID NO: 47			64b, 65b, 70, 75, 76, 81, 82, 89				
Furthe	er documents are listed in the continuation of Box C.						
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "Becial categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention							
"E" earlier a	application or patent but published on or after the international ate	"X" document of particular relevance; the considered novel or cannot be considered.	ered to involve an inventive				
"L" docume	ent which may throw doubts on priority claim(s) or which is bestablish the publication date of another citation or other	idead to involve an inventive of	claimed invention cannot be				
	document referring to an oral disclosure, use, exhibition or other peans						
"P" document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed							
Date of the actual completion of the international search 31 December 2008 (31.12.2008) Date of mailing of the international search report 0 6 FEB 2009							
Mail Stop PC P.O. Box 145	nailing address of the ISA/US T, Attn: ISA/US, Commissioner for Patents 50, Alexandria, Virginia 22313-1450 0. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774					